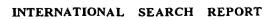


INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/24157

A. CLASSIFICATION OF SUBJECT MATTER 1PC(6) :H04L 9/00									
US CL : 380/286									
According to International Patent Classification (IPC) or to both	national classification and IPC								
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)									
U.S. : 380/286	·								
Documentation searched other than minimum documentation to the	extent that such documents are included in	the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)									
Please See Extra Sheet.									
. *									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category* Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.							
Y US 5,790,668 (TOMKO) 04 August 1	US 5,790,668 (TOMKO) 04 August 1998, abs, Fig 1, col 1 and 2								
Y BRUCE SCHNEIER, Applied Crypton	logy, 2e, 1996, pgs 587	1-13							
		Φ.							
		·							
Further documents are listed in the continuation of Box	C. See patent family annex.	<u> </u>							
Special categories of cited documents:	"T" later document published after the inter date and not in conflict with the appli	cation but cited to understand							
A document defining the general state of the art which is not considered to be of particular relevance	"X" the principle or theory underlying the "X" document of particular relevance; the	•							
E earlier document published on or after the international filing date *L* document which may throw doubts on priority elaim(s) or which is	considered novel or cannot be consider when the document is taken alone								
cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive	step when the document is							
"O" document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents, such combination							
P document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent	family							
Date of the actual completion of the international search	Date of mailing of the international sea	arch report							
13 DECEMBER 1999	1 9 JAN 2000								
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks	Authorized officer	A 4							
Box PCT Washington, D.C. 20231	Gail Hayes James R. M.	- Toline							
Facsimile No. (703) 305-3230	Telephone No. (703) 308-4562								





International application No. PCT/US99/24157

В.	FIELD	S SE	ARCH	ED							
El	ectronic	data	bases	consulted	(Name of	data	base and	where	practicable	terms	used):

West, Dialog, STN, Internet

Search terms: user authentication, public key, biometric data, fingerprint, Internet, Smart card, voice print, retinal scan